

50X1-HUM

Title: WORLD OF THE ATOM

USSR

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Source: Mir atoma

62 pages

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**CONFIDENTIAL**WORLD OF THE ATOM

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[NOTE: The following is the table of contents of a small book of 62 pages published 1950 in Moscow-Leningrad by the State Publisher of Technical-Theoretical Literature; it is part of the series called Popular Science Library. This book is an elementary exposition of nuclear physics intended for popular consumption; it contains political propaganda and mentions only Soviet scientists.]

## I. Molecules and Atoms

## II. Structure of Atoms.

1. Particles of atoms
2. Electrons
3. "Atomic artillery".
4. Structure of atoms
5. Nature of light
6. Linear spectra
7. How radiation of light occurs
8. Electron shells and the periodic law

## III. Atomic Nucleus.

1. Radioactive transmutations
2. Isotopes and isobars
3. Chains of radioactive transmutations
4. How to see radioactive decay
5. Artificial transmutation of elements
6. Neutrons
7. Composition of atomic nuclei
8. Transmutations of elementary particles
9. Artificial radioactivity

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